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TITLE: ELECTRIC DOUBLE-LAYER CAPACITOR
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ABSTRACT:

PURPOSE: To obtain an electrode capable of keeping a stable activity over a long period of time by using a polarizable electrode made of activated charcoal containing specific amounts of Fe, Cr, Ni, Na, K and Cl and having an ash component not greater than 0.5% as an impurity.

CONSTITUTION: In an electric double-layer capacitor using an electric double-layer formed in an interface between a polarizable electrode and an electrolytic solution, a polarizable electrode containing Fe (not greater than 200ppm), Cr (not greater than 10ppm), Ni (not greater than 10ppm), Na (not greater than 200ppm), k (not greater than 200ppm), and Cl (not greater than 300ppm) as an impurity and having an ash component not greater than 0,5% is used. For activated

charcoal used for polarizable electrodes, woody phenol resin as a material or the activated charcoal powders mixed with an electrolytic solution and formed into paste for an electrode containing pitch resin may be used for electrodes. However, for an electrode excellent in size per volume and having mechanical strength, an electrode for which activated charcoal is formed into a sheet by using a binding agent, such as polytetrafluoroethylene, having resistance against chemicals, can be cited.

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